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RAYMOND PEARL.

My material consisted of 430 heads from plants collected at random from a large patch, July 25, 1903. The locality was Farmington, N. H. The plants were growing in an open hay field, on a moderately sloping hillside. The soil was a sandy loam, and on account of the thorough drainage, the ground was decidedly dry. In the counting I was assisted by Mr. Roswell T. Pearl.

[illegible]

The mean number of ray flowers here is 11.365. The agreement with Lucas' Lot 4 is very close in all particulars except extent of range. This series gives peaks at the Fibonacci numbers 8 and 13, the principal one being at 13, as in his cases. In this series, as in Lucas' Lots 2, 3, 4, and 5, all the heads on each plant collected were counted. It would appear from a compari-

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son of Lucas' Lot 1 with Lots 2 and 3 or 4 that this procedure tends to give a decidedly lower mean than is obtained from a random sampling of heads directly collected in the field.

A slight typographical error in the paper of Lucas to which

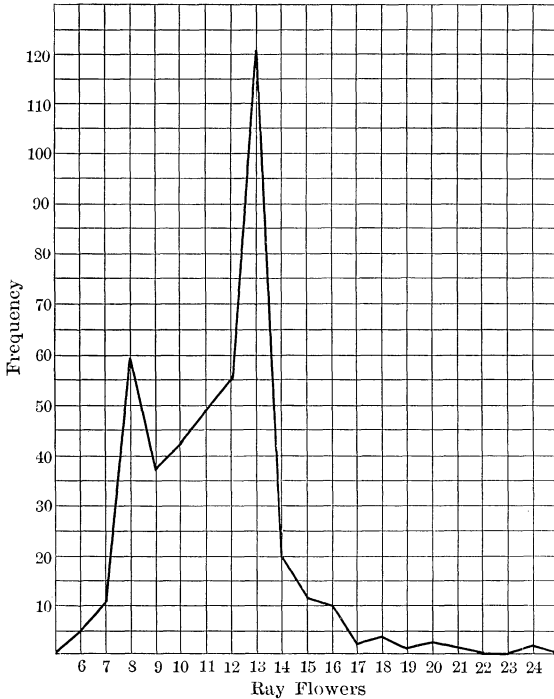


FIG. 1.—Frequency polygon. Ray flowers of Rudbeckia.

reference has been made, was noted. In the legend to Fig. 2 the number of heads in the combined Lots 2 and 3 is given as 468, while in the text Lot 2 is stated to have included 225 heads, and Lot 3, 240 heads.